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=> file medline, uspatful, dgene, embase, wpids
COST IN U.S. DOLLARS

FILE 'HOME' ENTERED AT 11:21:59 ON 08 JUL 2006

SINCE FILE TOTAL ENTRY SESSION

0.21

FILE 'MEDLINE' ENTERED AT 11:22:32 ON 08 JUL 2006

FILE 'USPATFULL' ENTERED AT 11:22:32 ON 08 JUL 2006
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=> s l1 and (methylthio-acetyl Co A)

L2 0 L1 AND (METHYLTHIO-ACETYL CO A)

=> s l1 and (15-methyl-6-dEB)

L3 10 L1 AND (15-METHYL-6-DEB)

=> d l3 ti abs ibib tot

L3 ANSWER 1 OF 10 MEDLINE on STN

TI 6-Deoxyerythronolide B analogue production in Escherichia coli through metabolic pathway engineering.

The erythromycin precursor polyketide 6-deoxyerythronolide B AΒ (6-dEB) is produced from one propionyl-CoA starter unit and six (2S)-methylmalonyl-CoA extender units. In vitro studies have previously demonstrated that the loading module of 6-deoxyerythronolide B synthase (DEBS) exhibits relaxed substrate specificity and is able to accept butyryl-CoA, leading to the production of polyketides with butyrate starter units. We have shown that we can produce butyryl-CoA at levels of up to 50% of the total CoA pool in Escherichia coli cells that overexpress the acetoacetyl-CoA:acetyl-CoA transferase, AtoAD (EC 2.8.3.8), in media supplemented with butyrate. The DEBS polyketide synthase (PKS) used butyryl-CoA and methylmalonyl-CoA supplied in vivo by the AtoAD and methylmalonyl-CoA mutase pathways, respectively, to produce 15methyl-6-dEB. Priming DEBS with endogenous butyryl-CoA affords an alternative and more direct route to 15-Me-6-dEB than that provided by the chemobiosynthesis method [Jacobsen, J. R., et al. (1997) Science 277, 367-369], which relies on priming a mutant DEBS with an exogenously fed diketide thioester. The approach described here

precursor pathways for the production of novel polyketides. ACCESSION NUMBER: 2003565219 MEDLINE DOCUMENT NUMBER: PubMed ID: 14640703

TITLE: 6-Deoxyerythronolide B analogue production in Escherichia

coli through metabolic pathway engineering.

demonstrates the utility of metabolic engineering in E. coli to introduce

AUTHOR: Kennedy Jonathan; Murli Sumati; Kealey James T

CORPORATE SOURCE: Kosan Biosciences, Inc., 3832 Bay Center Place, Hayward,

California 94545, USA.

SOURCE: Biochemistry, (2003 Dec 9) Vol. 42, No. 48, pp. 14342-8.

Journal code: 0370623. ISSN: 0006-2960.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200403

ENTRY DATE: Entered STN: 16 Dec 2003

Last Updated on STN: 18 Mar 2004 Entered Medline: 17 Mar 2004

L3 ANSWER 2 OF 10 USPATFULL on STN

TI Method of producing a compound by fermentation

During the production of a product compound by fermentation, the concentration of a precursor compound is maintained within a pre-selected concentration range by having an adsorbent resin in contact with the culture medium. The adsorbent resin reversibly adsorbs precursor compound and, as un-adsorbed precursor compound is converted to product compound, adsorbed precursor compound is released from the resin, thus maintaining the concentration of precursor compound within the pre-selected range.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

'ACCESSION NUMBER: 2005:151371 USPATFULL

TITLE: Method of producing a compound by fermentation INVENTOR(S): Leaf, Timothy A., Newark, CA, UNITED STATES
Desai, Ruchir P., Foster City, CA, UNITED STATES

Licari, Peter, Fremont, CA, UNITED STATES

Woo, Elaine Jennifer, Jackson, FL, UNITED STATES

PATENT ASSIGNEE(S): Kosan Biosciences, Inc., Hayward, CA, UNITED STATES,

94545 (U.S. corporation)

NUMBER DATE

PRIORITY INFORMATION: US 2003-493959P 20030808 (60)

PRIORITY INFORMATION.

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: KOSAN BIOSCIENCES, INC, 3832 BAY CENTER PLACE, HAYWARD,

CA, 94588, US 16

NUMBER OF CLAIMS: 1 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 4 Drawing Page(s)

LINE COUNT: 499

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 3 OF 10 USPATFULL on STN

TI Metabolic pathways for starter units in polyketide

biosynthesis

AB Host cells, such as E. coli, are provided with an expression system for making starter units required for biosynthesis of polyketides using the

ato pathway.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:126967 USPATFULL

TITLE: Metabolic pathways for starter units in

polyketide biosynthesis

INVENTOR(S): Kealey, James T., San Anselmo, CA, UNITED STATES

Dayem, Linda C., San Anselmo, CA, UNITED STATES Santi, Daniel V., San Francisco, CA, UNITED STATES

DATE NUMBER

-----

US 2002-396513P 20020715 (60) PRIORITY INFORMATION:

PRIORITY INFORMATION

DOCUMENT TYPE: Utility

APPLICATION

CORDIGON & F

LEGAL REPRESENTATIVE: MORRISON & FOERSTER LLP, 755 PAGE MILL RD, PALO ALTO,

CA, 94304-1018

NUMBER OF CLAIMS: 20
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 1 Drawing Page(s)
966

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 4 OF 10 USPATFULL on STN

Production of polyketides TI

AB Recombinant host cells that comprise recombinant DNA expression vectors that drive expression of a product and a precursor for biosynthesis of that product can be used to produce useful products such as polyketides in host cells that do not naturally produce the product or produce the product at low levels due to the absence of the precursor or the presence of the precursor in rate limiting amounts.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:335016 USPATFULL Production of polyketides TITLE:

INVENTOR(S): Katz, Leonard, Oakland, CA, UNITED STATES Revill, Peter, Oakland, CA, UNITED STATES

NUMBER KIND DATE -----.PATENT INFORMATION: US 2003235892 A1 20031225 APPLICATION INFO.: US 2003-607809 A1 20030627 (10)

RELATED APPLN. INFO.: Division of Ser. No. US 2000-697022, filed on 25 Oct

2000, GRANTED, Pat. No. US 6627427

NUMBER DATE -----

PRIORITY INFORMATION: US 1999-161414P 19991025 (60)

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: MORRISON & FOERSTER LLP, 3811 VALLEY CENTRE DRIVE,

SUITE 500, SAN DIEGO, CA, 92130-2332

NUMBER OF CLAIMS: 6
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 2 Drawing Page(s)
2751

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 5 OF 10 USPATFULL on STN L3

Heterologous production of 15-methyl-6-deoxyerthronolide B TI

Recombinant host cells that comprise recombinant DNA expression vectors .AB that drive expression of a product and a precursor for biosynthesis of that product can be used to produce useful products such as polyketides in host cells that do not naturally produce the product or produce the product at low levels due to the absence of the precursor or the presence of the precursor in rate limiting amounts.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:260669 USPATFULL

Heterologous production of 15-methyl-6-TITLE:

deoxyerthronolide B

INVENTOR(S): Katz, Leonard, Oakland, CA, United States

Revill, Peter, Oakland, CA, United States

PATENT ASSIGNEE(S): Kosan Biosciences, Inc., Hayward, CA, United States

(U.S. corporation)

NUMBER KIND DATE -----US 6627427 B1 20030930 US 2000-697022 20001025 ·PATENT INFORMATION: APPLICATION INFO.: 20001025 (9)

> NUMBER DATE -----

PRIORITY INFORMATION: US 1999-161414P 19991025 (60)

DOCUMENT TYPE: Utility GRANTED FILE SEGMENT:

PRIMARY EXAMINER: Achutamurthy, I ASSISTANT EXAMINER: Kerr, Kathleen PRIMARY EXAMINER: Achutamurthy, Ponnathapu

·LEGAL REPRESENTATIVE: Morrison & Foerster LLP, Kaster, Kevin

NUMBER OF CLAIMS: 12 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 20 Drawing Figure(s); 20 Drawing Page(s)

LINE COUNT: 3167

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 6 OF 10 USPATFULL on STN

TI Synthesis of oligoketides

Facile methods for preparing diketide and triketide thioesters are AB disclosed. The resulting thioesters may be used as intermediates in the synthesis of desired polyketides, and may contain functional groups which ultimately reside in side chains on the resulting polyketide and thus can be used further to manipulate the polyketide so as form derivatives. The polyketides produced may also be tailored by glycosylation, hydroxylation and the like. New polyketides and their derivatives and tailored forms are thereby produced.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:140533 USPATFULL TITLE: Synthesis of oligoketides

INVENTOR (S): Ashley, Gary, Alameda, CA, UNITED STATES

Chan-Kai, Isaac C., Hayward, CA, UNITED STATES

Burlingame, Mark A., San Francisco, CA, UNITED STATES

KIND DATE NUMBER US 2003096374 A1 20030522 US 2002-214653 A1 20020807 (10) Division of Ser. No. US 2000-492733, filed on 27 Jan PATENT INFORMATION: APPLICATION INFO.:

\*RELATED APPLN. INFO.:

2000, GRANTED, Pat. No. US 6492562

NUMBER DATE -----

PRIORITY INFORMATION: US 1999-117384P 19990127 (60)

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: MORRISON & FOERSTER LLP, 3811 VALLEY CENTRE DRIVE,

SUITE 500, SAN DIEGO, CA, 92130-2332

'NUMBER OF CLAIMS: EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 8 Drawing Page(s)

LINE COUNT: 2473

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 7 OF 10 USPATFULL on STN L3

ΤI Novel polyketides and antibiotics

Facile methods for preparing diketide and triketide thioesters are `AB disclosed. The resulting thioesters may be used as intermediates in the synthesis of desired polyketides, and may contain functional groups which ultimately reside in side chains on the resulting polyketide and thus can be used further to manipulate the polyketide so as form derivatives. The polyketides produced may also be tailored by glycosylation, hydroxylation and the like. New polyketides and their derivatives and tailored forms are thereby produced.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

2003:134055 USPATFULL ACCESSION NUMBER:

Novel polyketides and antibiotics TITLE:

Ashley, Gary, Alameda, CA, UNITED STATES INVENTOR(S):

Chan-Kai, Isaac C., Hayward, CA, UNITED STATES

Burlingame, Mark A., San Francisco, CA, UNITED STATES

KIND DATE NUMBER PATENT INFORMATION: US 2003092140 A1 20030515
US 7022825 B2 20060404

APPLICATION INFO.: US 2002-215964 A1 20020808 (10)

RELATED APPLN. INFO.: Division of Ser. No. US 2000-492733, filed on 27 Jan

2000, GRANTED, Pat. No. US 6492562

NUMBER DATE -----

PRIORITY INFORMATION: US 1999-117384P 19990127 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: MORRISON & FOERSTER LLP, 3811 VALLEY CENTRE DRIVE,

SUITE 500, SAN DIEGO, CA, 92130-2332

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 8 Drawing Page(s)

LINE COUNT: 2475

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 8 OF 10 USPATFULL on STN L3

Racemic thioesters for production of polyketides ΤI

Facile methods for preparing diketide and triketide thioesters are AB disclosed. The resulting thioesters may be used as intermediates in the synthesis of desired polyketides, and may contain functional groups which ultimately reside in side chains on the resulting polyketide and thus can be used further to manipulate the polyketide so as form derivatives. The polyketides produced may also be tailored by glycosylation, hydroxylation and the like. New polyketides and their derivatives and tailored forms are thereby produced.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:326139 USPATFULL

TITLE: Racemic thioesters for production of polyketides

INVENTOR(S): Ashley, Gary, Alameda, CA, United States

Chan-Kai, Isaac C., Hayward, CA, United States

Burlingame, Mark A., San Francisco, CA, United States Kosan Biosciences, Inc., Hayward, CA, United States

PATENT ASSIGNEE(S): (U.S. corporation)

NUMBER KIND DATE -----PATENT INFORMATION: US 6492562 B1 20021210 APPLICATION INFO.: US 2000-492733 20000127 (9) NUMBER DATE

19990127 (60) •PRIORITY INFORMATION: US 1999-117384P

Utility DOCUMENT TYPE: GRANTED FILE SEGMENT:

PRIMARY EXAMINER: Weber, Jon P.

LEGAL REPRESENTATIVE: Murashige, Kate H., Ashley, Gary, Kaster, Kevin

NUMBER OF CLAIMS: 17 EXEMPLARY CLAIM: 1

8 Drawing Figure(s); 8 Drawing Page(s) NUMBER OF DRAWINGS:

LINE COUNT: 2434

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 9 OF 10 EMBASE COPYRIGHT (c) 2006 Elsevier B.V. All rights L3 reserved on STN

6-Deoxyerythronolide B Analogue Production in Escherichia coli through ΤI Metabolic Pathway Engineering.

The erythromycin precursor polyketide 6-deoxyerythronolide B AB (6-dEB) is produced from one propionyl-CoA starter unit and six (2S)-methylmalonyl-CoA extender units. In vitro studies have previously demonstrated that the loading module of 6-deoxyerythronolide B synthase (DEBS) exhibits relaxed substrate specificity and is able to accept butyryl-CoA, leading to the production of polyketides with butyrate starter units. We have shown that we can produce butyryl-CoA at levels of up to 50% of the total CoA pool in Escherichia coli cells that overexpress the acetoacetyl-CoA:acetyl-CoA transferase, AtoAD (EC 2.8.3.8), in media supplemented with butyrate. The DEBS polyketide synthase (PKS) used butyryl-CoA and methylmalonyl-CoA supplied in vivo by the AtoAD and methylmalonyl-CoA mutase pathways, respectively, to produce 15methyl-6-dEB. Priming DEBS with endogenous

butyryl-CoA affords an alternative and more direct route to 15-Me-6-dEB than that provided by the chemobiosynthesis method [Jacobsen, J. R., et al. (1997) Science 277, 367-369], which relies on priming a mutant DEBS with an exogenously fed diketide thioester. The approach described here demonstrates the utility of metabolic engineering in E. coli to introduce precursor pathways for the production of novel polyketides.

2003500654 EMBASE ACCESSION NUMBER:

6-Deoxyerythronolide B Analogue Production in Escherichia TITLE:

coli through Metabolic Pathway Engineering.

AUTHOR: Kennedy J.; Murli S.; Kealey J.T.

J.T. Kealey, Kosan Biosciences, Inc., 3832 Bay Center CORPORATE SOURCE:

Place, Hayward, CA 94545, United States. kealey@kosan.com

·SOURCE: Biochemistry, (9 Dec 2003) Vol. 42, No. 48, pp.

14342-14348. .

Refs: 21

ISSN: 0006-2960 CODEN: BICHAW

COUNTRY: United States DOCUMENT TYPE: Journal; Article FILE SEGMENT: 004 Microbiology

> 029 Clinical Biochemistry 037 Drug Literature Index

LANGUAGE: English SUMMARY LANGUAGE: English

ENTRY DATE: Entered STN: 5 Jan 2004

Last Updated on STN: 5 Jan 2004

ANSWER 10 OF 10 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN L3

Making a product compound by selecting a target concentration for the TIprecursor compound in the culture medium and culturing the producing organism in the culture medium to produce the product compound.

AN 2005-434386 [44] WPIDS

AB US2005130283 A UPAB: 20050712 NOVELTY - Making a product compound by culturing, in a culture medium containing a precursor compound, a producing organism that converts the precursor compound to the product compound, comprising selecting a target concentration range for the precursor compound in the culture medium, and culturing the producing organism in the culture medium to produce the product compound, is new.

DETAILED DESCRIPTION - Making a product compound by culturing, in a culture medium containing a precursor compound, a producing organism that converts the precursor compound to the product compound, comprises:

- (a) selecting a target concentration range for the precursor compound in the culture medium; and
- (b) culturing the producing organism in the culture medium to produce the product compound, the culture medium being in contact with a resin that reversibly binds the precursor compound so that the concentration of unadsorbed precursor compound in the culture medium is maintained within the target concentration range by the release of the precursor compound bound to the resin as the precursor compound is converted to the product compound.

 $\ensuremath{\mathsf{USE}}$  - The method is useful for making a product compound by fermentation.

Dwg.0/4

ACCESSION NUMBER:

2005-434386 [44] WPIDS

DOC. NO. CPI:

C2005-133303

TITLE:

Making a product compound by selecting a target

concentration for the precursor compound in the culture

medium and culturing the producing organism, in the

culture medium to produce the product compound.

DERWENT CLASS:

A13 A96 B04 D16

INVENTOR(S):

DESAI, R P; LEAF, T A; LICARI, P; WOO, E J

PATENT ASSIGNEE(S):

(KOSA-N) KOSAN BIOSCIENCES INC

COUNTRY COUNT:

PATENT INFORMATION:

PATENT NO	KIND DATE	WEEK	LΑ	PG
US 2005130283	A1 20050616	(200544)*	1	0

### APPLICATION DETAILS:

PATENT NO KIND		APPLICATION	DATE	
US 2005130283	Al Provisional	US 2003-493959P US 2004-913180	20030808 20040806	

PRIORITY APPLN. INFO: US 2003-493959P 20030808; US 2004-913180 20040806

=> d his

(FILE 'HOME' ENTERED AT 11:21:59 ON 08 JUL 2006)

FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, WPIDS' ENTERED AT 11:22:32 ON 08 JUL 2006

L1 582 S POLYKETIDE AND (STARTER UNIT)

L2 0 S L1 AND (METHYLTHIO-ACETYL CO A)

L3 10 S L1 AND (15-METHYL-6-DEB)

## => s ((Methylthio)acetyl CoA)

MISSING OPERATOR ETHYLTHIO) ACETYL

The search profile that was entered contains terms or nested terms that are not separated by a logical operator.

=> s "methylthio-acetyl CoA"

L4 2 "METHYLTHIO-ACETYL COA"

=> d l4 ti abs ibib tot

L4 ANSWER 1 OF 2 USPATFULL on STN

TI Metabolic pathways for starter units in polyketide biosynthesis

AB Host cells, such as E. coli, are provided with an expression system for making starter units required for biosynthesis of polyketides using the ato pathway.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2004:126967 USPATFULL

TITLE: Metabolic pathways for starter units in polyketide

biosynthesis

INVENTOR(S): Kealey, James T., San Anselmo, CA, UNITED STATES

Dayem, Linda C., San Anselmo, CA, UNITED STATES Santi, Daniel V., San Francisco, CA, UNITED STATES

NUMBER DATE

-----

PRIORITY INFORMATION: US 2002-396513P 20020715 (60)

DOCUMENT TYPE: Utility FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: MORRISON & FOERSTER LLP, 755 PAGE MILL RD, PALO ALTO,

CA, 94304-1018

NUMBER OF CLAIMS: 20 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 1 Drawing Page(s)

LINE COUNT: 966

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

- L4 ANSWER 2 OF 2 WPIDS COPYRIGHT 2006 THE THOMSON CORP on STN
- TI Recombinant host cell derived from native host cell by modification with an expression vector useful for production of polyketides e.g. 15-chloro-6-deoxyerythronolide B using starter units.
- AN 2004-143102 [14] WPIDS
- AB W02004007688 A UPAB: 20040226

NOVELTY - A recombinant host cell derived from native host cell by modification with an expression vector, produces a polyketide using a starter unit (A). The native host is incapable of producing (A), and the vector expresses at least one protein that produce (A); or the native host cell produces (A) and the vector overexpresses at least one protein whose expression results in increased production of (A).

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for production of 6-deoxyerythronolide B (6-dEB) modified by replacement of the propionate starter unit in the recombinant host cell involving culturing the host cell for the production of the analog of 6-dEB.

USE - For production of polyketides including 14-desmethyl-6dEB, 15-methyl-6dEB, 15-fluoro-6dEB, 15-chloro-6dEB, 15-trifluoro-6dEB, 15-hydroxy-6dEB, 15-desmethyl-14-fluoro-6dEB, 14-hydroxy-6dEB, 14-desmethyl-14-(methylthio)-6dEB, 14-desmethyl-14-chloro-6dEB, 14-desmethyl-14-hydroxy-6dEB, 15-(chloromethyl)-6dEB, 14-ethyl-6dEB, and 15-ethyl-6dEB) (claimed) which are useful for medical, veterinary, and agriculture purposes.

ADVANTAGE - The recombinant host cells facilitate efficient and cost effective synthesis of non-naturally occurring new polyketides.

Dwg.0/1

ACCESSION NUMBER:

2004-143102 [14] WPIDS

DOC. NO. CPI:

C2004-057704

TITLE:

Recombinant host cell derived from native host cell by

modification with an expression vector useful for

production of polyketides e.g. 15-chloro-6-deoxyerythronolide B using starter units.

DERWENT CLASS:

B04 B05 D16

INVENTOR (S):

DAYEM, L C; KEALEY, J T; SANTI, D V

PATENT ASSIGNEE(S):

(DAYE-I) DAYEM L C; (KEAL-I) KEALEY J T; (SANT-I) SANTI D

V; (KOSA-N) KOSAN BIOSCIENCES INC

COUNTRY COUNT:

105

PATENT INFORMATION:

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	W :	ΑE	AG	AL	ΑM	AT	ΑU	ΑZ	BA	BB	BG	BR	BY	BZ	CA	CH	CN	CO	CR	CU	CZ	DE	DK
		DM	DZ	EC	EE	ES	FΙ	GB	GD	GΕ	GH	GM	HR	HU	ID	IL	IN	IS	JΡ	KΕ	KG	ΚP	KR
		ΚZ	LC	LK	LR	LS	LT	LU	ΓΛ	MA	MD	MG	MK	MN	MW	MX	ΜZ	NI	NO	NZ	MO	PG	PH
		PL	PT	RO	RU	SC	SD	SE	SG	SK	$\mathtt{SL}$	SY	TJ	TM	TN	TR	TT	TZ	UA	UG	US	UZ	VC
		VN	YU	ZA	ZM	ZW																	
US	200	4096	5946	5	A1	200	0405	520	(20	0043	34)												
AU	200	3253	3949	9	A1	200	0402	202	(20	004	50)												
AU	200	3253	3949	9	<b>A8</b>	200	0513	103	(20	0062	29)												

#### APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 2004007688	A2	WO 2003-US22231	20030715
US 2004096946	Al Provisional	US 2002-396513P	20020715
		US 2003-621206	20030715
AU 2003253949	A1	AU 2003-253949	20030715
AU 2003253949	A8	AU 2003-253949	20030715

### FILING DETAILS:

PATENT NO	KIND	D PATENT NO				
AU 2003253949	A1 Based on	WO 2004007688				
AU 2003253949	A8 Based on	WO 2004007688				

PRIORITY APPLN. INFO: US 2002-396513P

20020715; US

2003-621206 20030715

=>	e kealey,	j/au	
E1		1	KEALEY W DAVID C/AU
E2		1	KEALEY W F/AU
E3		0>	KEALEY, J/AU
E4		1	KEALHOFER L/AU
E5		1	KEALHOFER S/AU
E6		.1	KEALHOFER STEPHEN/AU
E7		4	KEALIHER A/AU
-E8		1	KEALING J E/AU
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E10	)	2	KEALL C L/AU
E11		5	KEALL D D/AU
E12	!	1	KEALL G C/AU

# Refine Search

### Search Results -

Terms	Documents
L3 and (15-methyl-6-dEB)	2

US Pre-Grant Publication Full-Text Database
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DATE: Saturday, July 08, 2006 Printable Copy Create Case

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side by sid	e		result set
DB=U	SPT; PLUR=YES; OP=OR		
<u>L4</u>	L3 and (15-methyl-6-dEB)	2	<u>L4</u>
<u>L3</u>	L2 and (methylthio-acetyl CoA)	205	<u>L3</u>
<u>L2</u>	polyketide and (starter unit)	489	<u>L2</u>
<u>L1</u>	kealey.in.	23	<u>L1</u>

**END OF SEARCH HISTORY** 

## Hit List

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Search Results - Record(s) 1 through 5 of 5 returned.

1. Document ID: US 7033818 B2

L6: Entry 1 of 5 File: USPT Apr 25, 2006

US-PAT-NO: 7033818

DOCUMENT-IDENTIFIER: US 7033818 B2

TITLE: Recombinant polyketide synthase genes

DATE-ISSUED: April 25, 2006

PRIOR-PUBLICATION:

DOC-ID DATE

US 20020173008 A1 November 21, 2002

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Hu; ZhihaoHaywardCAUSMcDaniel; RobertPalo AltoCAUSSanti; Daniel V.San FranciscoCAUS

US-CL-CURRENT: <u>435/252.33</u>; <u>435/254.2</u>, <u>435/320.1</u>, <u>435/471</u>, <u>536/23.1</u>, <u>536/23.2</u>

Full Title Citation Front Review Classification Date Reference Claims KMC Draw Desc Ima

2. Document ID: US 7022825 B2

L6: Entry 2 of 5 File: USPT Apr 4, 2006

US-PAT-NO: 7022825

DOCUMENT-IDENTIFIER: US 7022825 B2

TITLE: Polyketides and antibiotics

DATE-ISSUED: April 4, 2006

PRIOR-PUBLICATION:

DOC-ID DATE

US 20030092140 A1 May 15, 2003

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Ashley; Gary Alameda CA US
Chan-Kai; Isaac C. Hayward CA US
Burlingame; Mark A. San Francisco CA US

Sall Flancisco CA Us

US-CL-CURRENT: <u>536/7.2</u>; <u>435/75</u>

3. Document ID: US 6946482 B2

L6: Entry 3 of 5

File: USPT

Sep 20, 2005

US-PAT-NO: 6946482

DOCUMENT-IDENTIFIER: US 6946482 B2

TITLE: Motilide compounds

DATE-ISSUED: September 20, 2005

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Santi; Daniel V. San Francisco CA
Metcalf; Brian Moraga CA
Carreras; Christopher San Carlos CA
Liu; Yaoquan Castro Valley CA

McDaniel; Robert Palo Alto CA Rodriguez; Eduardo J. Mountain View CA

US-CL-CURRENT: 514/450; 549/271

Full Title Citation		Date Reference	Claims KW	C Drawi Desc 1	eni

### 4. Document ID: US 6627427 B1

L6: Entry 4 of 5 File: USPT Sep 30, 2003

US-PAT-NO: 6627427

DOCUMENT-IDENTIFIER: US 6627427 B1

TITLE: Heterologous production of 15-methyl-6-deoxyerthronolide B

DATE-ISSUED: September 30, 2003

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Katz; Leonard Oakland CA Revill; Peter Oakland CA

US-CL-CURRENT: 435/252.3

Full T	itle Citation	Front	Review	Classification	Date	Reference				Claims	KMC	Drawe De	se ima
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□ 5	. Docume	ent ID:	US 649	92562 B1									

L6: Entry 5 of 5 File: USPT Dec 10, 2002

US-PAT-NO: 6492562

DOCUMENT-IDENTIFIER: US 6492562 B1

TITLE: Racemic thioesters for production of polyketides

DATE-ISSUED: December 10, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

Ashley; Gary

Alameda

COUNTRY

Chan-Kai; Isaac C.

Hayward

CA

CA

Burlingame; Mark A.

San Francisco

CA

US-CL-CURRENT: <u>568/75</u>; <u>424/70.51</u>

Full Title Citation Front Review Classification D	ale Reference	Claims	RMC   Draws Desc   Ime
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Terms		Documents	
L5 and (15-methyl-6-dEB)			5

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